

Date: Thu, 5 May 94 04:30:18 PDT
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>
Errors-To: Ham-Equip-Errors@UCSD.Edu
Reply-To: Ham-Equip@UCSD.Edu
Precedence: Bulk
Subject: Ham-Equip Digest V94 #135
To: Ham-Equip

Ham-Equip Digest Thu, 5 May 94 Volume 94 : Issue 135

Today's Topics:

Batteries for Kenwood TH-78A
FT-11/41R PL Tone Problem: Followup
help with uniden 2510 mods
ICOM 736: 6 meter an extra cost option?
IFR 1200 S
Mods for Yaesu FT416?
Opinions about IC737 (2 msgs)
Opinions about IC737/736 6m
Radio Shack HTX-202 Mods??? (2 msgs)
Repeater System
seeking Mail-Order info
Simplex Problem
W9GR DSP Filter For Sale

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 4 May 1994 07:51:40 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!EU.net!
Germany.EU.net!Munich.Germany.EU.net!thoth.mch.sni.de!news.sni.de!nanette!
schro@network.ucsd.edu
Subject: Batteries for Kenwood TH-78A
To: ham-equip@ucsd.edu

In <2psn0m\$h5n@apakabar.cc.columbia.edu> mrw13@namaste.cc.columbia.edu (Marc
Richard Wollemborg) writes:

>I finally decided on buying a Kenwood TH-78A and am now considering which
>batteries to get with it. There are actually a couple mail order places
>which will ship the radio with a battery besides the standard PB-13. This
>is how the three main Kenwood batteries compare:

- > PB-13 Standard 7.2V 700A 2.5W on High Power (approx. 4.5 hrs.)
- > PB-17 High-Power 12.0V 700A 5.0W on High Power (approx. 3.0 hrs.)
- > PB-18 Long-Life 7.2V 1100A 2.5W on High Power (approx. 7.0 hrs.)

The 7.2V/700mA came with the radio when i got my TH-78E.
It's small and fits completely inside the rig. I mainly use it when i
carry the 78 around. Good for listening but don't talk too much.

The 12V/700mA doesn't make sense to me. It's too large and at 12V the
current goes up to more than 2A, which is too much for 700mA cells.
It's easy to kill a cell by reverse charge and the pack is sealed so you
can't replace individual cells. You get a bit more power out but if the
other side can't hear you at 2.5W it probably can't hear you at 5W. Get
a better antenna instead.

IMHO the 7.2V/1100mA is the best choice. I can chat all night long and
then it won't go down all in a sudden. The charge circuit inside the 78
will only supply about 60 mA of charge current so it takes some time to
recharge, but then you won't overload the little wall cube and won't
do any harm to the pack even if you leave it on for a week.

>There is also the BT-8 battery case which takes 6 AA batteries; what kind of
>output (in watts) does this provide for and how long will it last?

With 6 Duracell alkaline you get 6*1.5V -> 9V. Output power maybe abt
3.5W. I think those cell have a capacity off abt 1700mA. With 6 NiCd
cells you get 6*1.2V -> 7.2V. The sticker on the BT-8 says: don't use
NiCd. Of course i ignored that and got me 850mA cells. The only problem
was that the cells were not charged inside the rig. I was too lazy to
pull them out for charging and modified the BT-8 at bit.

>Additionally, how about batteries that fit the Kenwood but are made by other
>manufacturers? I'm specifically looking for a "long-life, high-power"
>battery. Any suggestions/recommendations out there? Thanks very much.

Don't know any. Get a BT-8 and make your own pack. Then you can use
any type of cells you want and also can access individual cells. I plan
to get a set of those new NiMH cells that claim a capacity of 1200mA.

>-Marc Wollemborg
> <mrw13@columbia.edu>

73 Django
DL5YEC

Date: 4 May 94 19:49:29 GMT
From: dog.ee.lbl.gov!agate!kabuki.EECS.Berkeley.EDU!kennish@ucbvax.berkeley.edu
Subject: FT-11/41R PL Tone Problem: Followup
To: ham-equip@ucsd.edu

Disclaimer: The following is for informational purposes only.
Use at your own risk, and any liability from using this information
is yours.

History: Those that saw my earlier post are aware that the Yaesu
FT11/41R radios have a problem with the PL tone generation. If
used without the optional FTS-26 tone board, the PL tones are
slightly off in frequency, being too high.

Solution: Yaesu has recognized this as a problem, as has issued
a service bulletin TB9420 to deal with this problem. The fix
involves changing the value of one of the loading capacitors used
with the microprocessor crystal. The principle being that lowering
the clock frequency will lower the PL tone.

Yaesu's bulletin directs changing C2018 (33 pF chip cap loading
the output of the inverter on the CPU) to 39 pF.

Warning: Those of you contemplating this should be made aware that
the chip cap less than 1/2 the size of the COG size chip caps -- I
would not attempt this without a microscope and a FINE tip.

Changing the capacitance to 39 pF did indeed lower the PL tone,
but was insufficient to fix the problem. Only after adding another
7pF (total 46 pF) did the PL tone fall within range of a local
repeater.

It may be that this particular situation was bad luck (i.e. high
crystal, low caps, low reed on the repeater).

Yaesu has started using the larger capacitor beginning with
lot 13 (11R) and lot 12 (41R).

If you have a problem with PL tones, and opt to return your unit,
you may want to insist that they check the value of the PL after
the mod -- they may have to put an even larger capacitor in there
(e.g. 47 pF)

I am happy to report, however, that the above mod has fixed the PL problem for me, and the local repeater now likes the 41R. Other than this minor (albeit frustrating) glitch, the 41R is a neat unit. VERY small -- less than 1/2 the size of the 530, and performs well for its size. The standard 4.8 V pack is compact, but keeps the power output to 800 mW on high and 200 mW on low, which may be a problem for those hard of hearing repeaters. Speaker audio is improved over the 530. Your mileage may vary.

Related Item:

The extended RX/TX mod for the 41R is identical to that for the 11R.

-Ken

Date: Tue, 3 May 1994 10:19:17
From: ihnp4.ucsd.edu!swrinde!emory!news-feed-2.peachnet.edu!news-feed-1.peachnet.edu!news.duke.edu!zombie.ncsc.mil!golf!mizzou1.missouri.edu!phybs@network.ucsd.edu
Subject: help with uniden 2510 mods
To: ham-equip@ucsd.edu

I have acquired this radio and would like to hear from someone about their experiences with any mods to this radio. Particularly the extended Rx/Tx mod. The files at oak.oakland.edu are not comprehensive and a few things don't make sense when it is all in pieces on my workbench. Would appreciate some help.

Thanks
Bernie
phybs@mizzou1.missouri.edu

Date: Wed, 4 May 1994 11:02:17 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!feustel@network.ucsd.edu
Subject: ICOM 736: 6 meter an extra cost option?
To: ham-equip@ucsd.edu

I was told a few days ago that the 6 meter capability of the Icom 736 is an extra cost option. Is this correct? If so, how much? Thanks.

--
Dave Feustel N9MYI Internet:<feustel@netcom.com> Compuserve:<73532,1747>

"I'm behind the Constitution and the Bill of Rights 1000 percent!"
--- When he says this, a sure sign that Bill Clinton is about to
declare martial law.

Date: 4 May 94 14:21:45 GMT
From: ipxpress.aws.waii.com!ep130.wg2.waii.com!ep130.wg2.waii.com!mjg@uunet.uu.net
Subject: IFR 1200 S
To: ham-equip@ucsd.edu

This isn't quite Ham gear but is a great peice of test gear for a shack so.... I
have a IFR 1200S service monitor for sale. This unit will operatre from .1 to
999.999Mhz with spectrum analyzer. The unit is less then 6 months old and comes
with all manuals and packing materials. If interested Please mail me a inquiry.
The unit cost over \$11,000 when purchased.
I am asking \$9000.

Thank you Mike KB5T0J

Date: 3 May 1994 16:03:49 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!hpscit.sc.hp.com!icon!hpchase.rose.hp.com!
stan@network.ucsd.edu
Subject: Mods for Yaesu FT416?
To: ham-equip@ucsd.edu

Tom Williams (tommy@hale.cts.com) wrote:
: crispy@space.mit.edu (Chris Pak) writes:

: >
: > Where can I find modification documentations/info for Yaesu FT416? I am looki
: > to modify the rx and tx ranges. I looked in ftp.oakland.edu but could not fin
: > any.
: >
: If you mean the FT-411, I have the mods for it. I can't recall seeing an
: FT-416 before, so pardon me if it does exist.

I heard a rumor that that the FT-411 mods will work on the FT-415 and
Ft-416. I don't have any of the above rigs (I used to have a FT-411 -
Nice radio - Shouldn't have sold it :-()), so I can't verify the
rumor.

Stan

: -----
: Hale Telecommunications Inc./Public Access Internet Site 619/660-6734 V.32Bis
:

--

- Stan Witherspoon N6SCE - Disclaimer -
- Systems Technology Div. of Hewlett Packard - These are my personal opinions -
- 8010 Foothills Blvd. - and do not represent the views -
- Roseville Ca. 95678 (916) 785-5071 - of anyone or anything else. -
- Email: ucbvax!hplabs!hprpcd!stan or stan@hprpcd.rose.hp.com -

Date: 4 May 1994 03:12:45 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!psgrain!nntp.cs.ubc.ca!
newsxfer.itd.umich.edu!news1.oakland.edu!vela.acs.oakland.edu!
prvalko@network.ucsd.edu
Subject: Opinions about IC737
To: ham-equip@ucsd.edu

FWIW, I looked at them at Dayton and *almost* bought a used one in the
flea market asking \$1,000 said he'd take \$975, I probably would have got
it if he'd come down to \$900-925.

They were selling brand-new for \$1,091 out the door.

The "A" version (with vox) was about another \$90.

The 736, which looks like a MUCH nicer radio, also has 6M, would have
been about \$2K... big price jump there!

73 paul wb8zjl

Date: 4 May 1994 19:26:34 GMT
From: ihnp4.ucsd.edu!swrinde!sdd.hp.com!hpscit.sc.hp.com!icon!hpchase.rose.hp.com!
cmoore@network.ucsd.edu
Subject: Opinions about IC737
To: ham-equip@ucsd.edu

I have an IC 737, and I've been really happy with it. You have to keep
in mind, though, that I'm comparing it to my last rig which was a
Yaesu FT-101ZD.

I especially like the built-in tuner and antenna switch. I don't have the

'A' version, but I don't miss the VOX. I never liked VOX much anyways; I prefer a footswitch.

The dual display is nice -- I like being able to see xmit and rcv freqs at the same time. It's quite easy to tune either one indendently. The "dual band stacking registers" is a neat function too. I don't know if that is common on modern rigs or not.

Feel free to email me if you'd like anything more specific.

Chris Moore
N6IYS
cmoore@cancun.rose.hp.com

Date: 4 May 94 14:53:39 GMT
From: agate!howland.reston.ans.net!europa.eng.gtefsd.com!news.umbc.edu!
haven.umd.edu!cville-srv.wam.umd.edu!ham@ucbvax.berkeley.edu
Subject: Opinions about IC737/736 6m
To: ham-equip@ucsd.edu

I'll have you notice just how QUICKLY the IC-737A came out after the 737 came out.

What kind of company today making a \$1300 radio would be stupid enough to not give it a VOX circuit?

The ad in QST for the "NEW 737A" said,

"NOW WITH VOX!"

as if that's something revolutionary...

If the 6 meter capability in the IC-736 adds more than \$200 to the price, I'm not sure I'd want it - except that I vaguely remember hearing that it actually does 100 watts on 6 meters, which the TS-680/TS-690/IC-726/IC-729 did NOT do. If it had a second SO-239 for a 6-meter antenna, it might be worth another \$500 on top of the 737A's price, since it's basically like getting an IC-575H included in your 737.

--

73,

----- The
 \ / Long Original
Scott Rosenfeld Amateur Radio NF3I Burtonsville, MD | Live \$5.00
WAC-CW/SSB WAS DXCC - 125 QSLed on dipoles -----| Dipoles! Antenna!

Date: 3 May 94 11:17:36 -0500
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!noc.near.net!news.tufts.edu!
news.hnrc.tufts.edu!jerry@network.ucsd.edu
Subject: Radio Shack HTX-202 Mods???
To: ham-equip@ucsd.edu

In article <Cp88Iq.Bp9@inmet.camb.inmet.com>, leber@panther.warm.inmet.com (Thomas Leber) writes:

> In article <82@oldhagbug.win.net>, John Dick <jdick@oldhagbug.win.net> wrote:
>>Subject says it all. Are any mods possible for this radio, extended
>>RX? extend TX? Thanks for any input.
>
> One of the most popular questions to ask (I know, I asked it myself once).
> No, no extended TX/RX for the HTX-202. The design precludes these.
>

I believe I *have* seen a mod for extended RX posted.
It goes like this . . .

- (1) Sell HTX-202
- (2) Buy ICOM something-or-other

You now have extended RX on your unit.

:-) (and my apologies for forgetting the name of the original poster.)

Date: Wed, 4 May 1994 05:02:08 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
wa2ise@network.ucsd.edu
Subject: Radio Shack HTX-202 Mods???
To: ham-equip@ucsd.edu

No.

Date: 5 May 94 03:47:02 GMT
From: agate!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
cleader@ucbvax.berkeley.edu
Subject: Repeater System
To: ham-equip@ucsd.edu

I am wondering if anyone knows how to find out about any 2M or 440 repeater systems or, preferably, just the channel being available or for sale.

Thanks in advance.

Charles

Date: 3 May 1994 14:33:56 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!news.cac.psu.edu!
news.tc.cornell.edu!travelers.mail.cornell.edu!tuba.cit.cornell.edu!crux3!
srs3@network.ucsd.edu
Subject: seeking Mail-Order info
To: ham-equip@ucsd.edu

I am assembling a list of mail-order addresses and phone numbers
of places that sell radio and electronic equipment, as well as
consumer electronics. Any info would be greatly appreciated.

please e-mail me, as well as post. thanks in advance.

steve seidman
srs3@crux3.cit.cornell.edu

Date: 4 May 94 18:42:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: Simplex Problem
To: ham-equip@ucsd.edu

**Scott Stambaugh, N9LJX noted a problem with Simplex Transmit on
hisa ICOM 2AT.....

I had a similar problem on one of my ICOM 2AT's. I made a call
to ICOM's service folks and they identified the problem as a bad
simplex crystal. They shipped me a new one for about \$10 and I
made the repair in 15 minutes. I suggest you give them a call at
206-454-8155. 73 es gd luck de KD1DJ, Al.

Date: 4 May 1994 15:15:34 GMT
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!agate!howland.reston.ans.net!
math.ohio-state.edu!hobbes.physics.uiowa.edu!news.uiowa.edu!panda@network.ucsd.edu
Subject: W9GR DSP Filter For Sale
To: ham-equip@ucsd.edu

I have a W9GR DSP II filter for sale. I bought it from J-com in October of '93.
I am asking \$225 and it includes the power supply. Call me during the day at
708-523-3851 if you are interested.

The opinions in this post are mine and my cat's, not my employer's.
scottm@csg.mot.com (Scott F. Migaldi, KF5JQ)

Date: 4 May 94 11:14:35 CDT
From: equalizer!timbuk.cray.com!walter.cray.com!trb@network.ucsd.edu
To: ham-equip@ucsd.edu

References <trb-290494102033@bexar.cray.com>,
<nimtz.1-020594091736@nimtziici.edmedia.nd.edu>, <trb-030594110046@bexar.cray.com>
Subject : Re: FT-5100 features (was Re: Question about dual in-band rcv)

Tom Baltz (trb@cray.com) wrote:
: In article <nimtz.1-020594091736@nimtziici.edmedia.nd.edu>, nimtz.1@nd.edu
: (Rick Nimtz) wrote:

: > Does the 5100 have the ability to Priority Monitor a frequency while
: > scanning
: > a bank, or does the radio have to stay on one freq? The Yaesu FT-530
: > handheld
: > will not scan the bank while Priority Monitoring is activated.
: >
: Hmmmm....I don't think you can do it while scanning, but I'll check durin
: lunch.

Confirmed. Like the FT530, you cannot scan with priority monitoring.

End of Ham-Equip Digest V94 #135
